ZEIEZNIKAR, Anton, inz.

Logic pf predicates, and digital circuits. Automatika 4 no.1: 18-24 *63.

1. Nuklearni institut "Jozef Stefan", Ljubljana.

ZELEZNIKAR, Anton, inz.

A new difinition of algorism, and its applicability. Automatika 4 no.2:92-99 63.

I. Nuklearni institut "Jozef Stefan," Ljubljana.

KOLBEZEN, Peter, inz.; KORENINI, Janez, inz.; ZELEZNIKAR, Anton, inz.

An apparatus for automatic measurement of neutron flux distribution in a reactor. Automatika 4 no.2:102-108 '63.

1. Nuklearni institut "Jozef Stefan", Ljubljana.

ZELEZNIKAR, Anton, dipl. inz.; CATAR, Ledislav, inz.

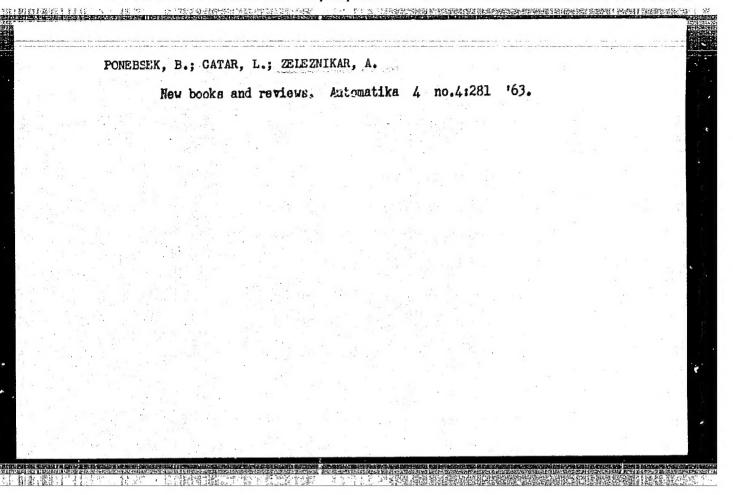
Solving the problems of linear programming with the aid of simplex method and digital computer. Automatika 4 no. 5/6 328-334 163.

1. Nuklearni institut "Jozef Stefan", Ljubljana.

ZELEZNIKAR, Anton, inz.

Synthesis of automatic digital computers with algebraic solution of logical equations. Automatika 4 no.3:174-180

1. Nuklearni institut "Jozef Stefan", Ljubljana.



ZEIE7NIKAR, Anton P. (Ljubljana)

Some algorithm theory and its applicability. Glas mat fiz Hrv 18 no. 3:141-158 163. (MIRA 17:5)

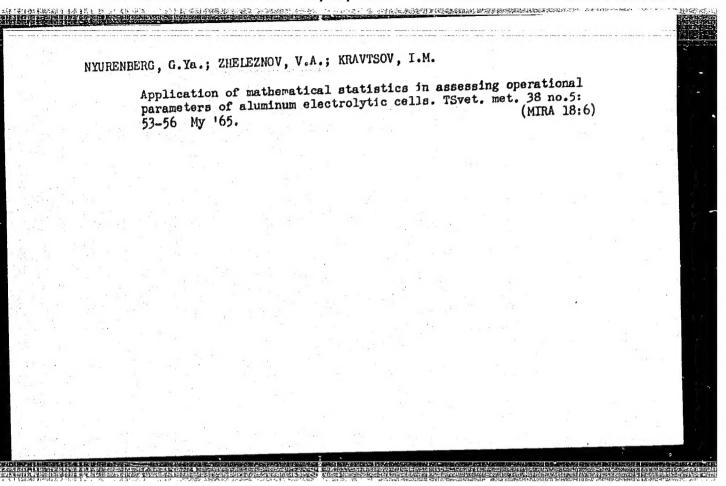
1. The Jozef Stefan Nuclear Institute, Ljubljana.

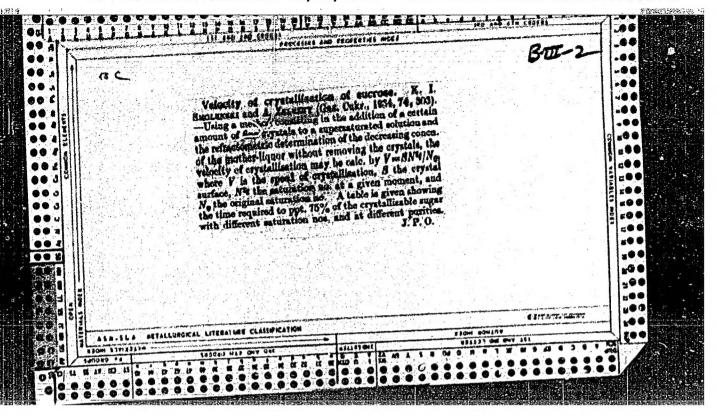
ZELEZNIKOVA, J.

"Experiments on the vegetative hybridization of <u>Salmonells</u>, <u>Brucella</u>, and <u>Bacillus anthracis</u>."

VESTNIK. Praha, Czechoslovakia, Vol. 5, No. 7/8, 1958.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September 1959. Unclassified.





ZELEZNY, A.

"Economic Analysis and Evaluation in the Construction of Machinery." p. 299
(Stroirenstyl, Vol. 3, no. 4, Apr. 1953, Praha)

So: Monthly List of East European Accessions, Vol. 3, No. 3, No. 3, March 1954, Uncl.

ZELEZNY. A.

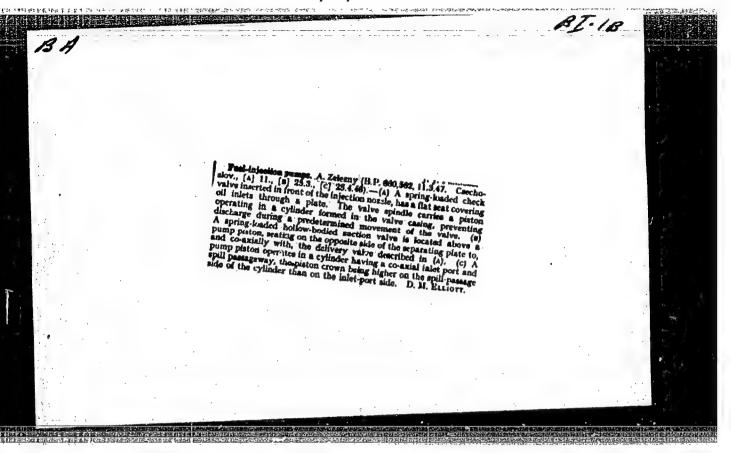
Where does the fault lie? p. 104. ZELEZNICE. Vol. 4, no. 4, Apr. 1954. Prague

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 5, No. 6, June 1956 Uncl.

ZELEZNY, A.

Shall we have ballast cleaners of our own production? p. 65. (Zeleznice, Praha, Vol. 4, No. 3, Mar. 1954)

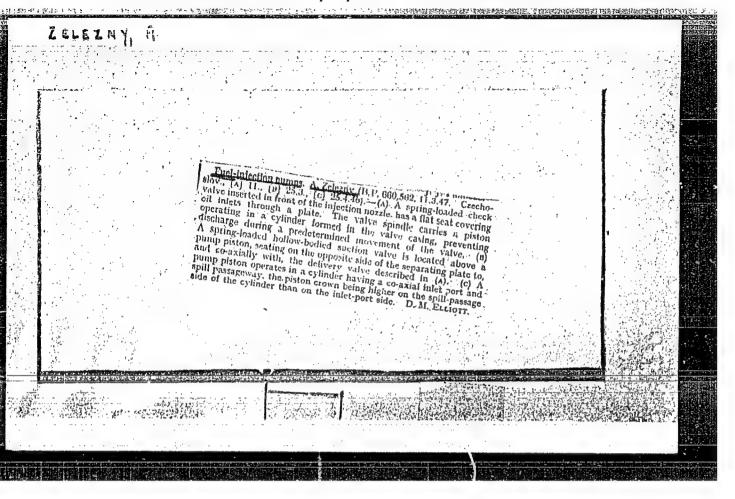
SO: Monthly list of East European Accessions (EEAL), LC Vol 4, No. 6, June 1955, Uncl



ZELEZNY, A.

"Creative Application of Soviet Methods in Machine Design. p. 818. (STROJIRENSTVI. Vol. 4, No. 11, Nov. 1954; Praha, Czech.)

So: Monthly List of East European Accessions, (EEAL), IC, Vol. 4, No. 4, April 1955, Uncl..



ZELEZNY, A.

Importance of the construction engineer's work for the technical development of production. p.35 (Nova Technika, Vol.1, no.2, Feb. 1956) Fraha

SO: Monthly List of East European Accession (EEAL) LC, Vol.6, no.7, July 1957. Uncl.

ZELEZNY, A

250 years of Czech technical schools.

p. 105 (Automobil) Vol. 1, no. 4, Apr. 1957 Praha, Czechoslovakia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, Jan. 1958

ZELEZNY, J.

"Automatic control for boring machines, which are punch-tape operated, with coordinate setting."

p. 175 (Automatisace, no. 6, June 1958, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) IC, Vol. 7, no. 9, September 1958

ZELEZNYAK, I., inzh.; YEZERSKIY, A., inzh.; OBLOV, V., inzh.

Plastic facing tiles. Gor. i sel'. stroi. no.11:18-19 N '57.

(Tile construction) (Plastics) (MIRA 11:1)

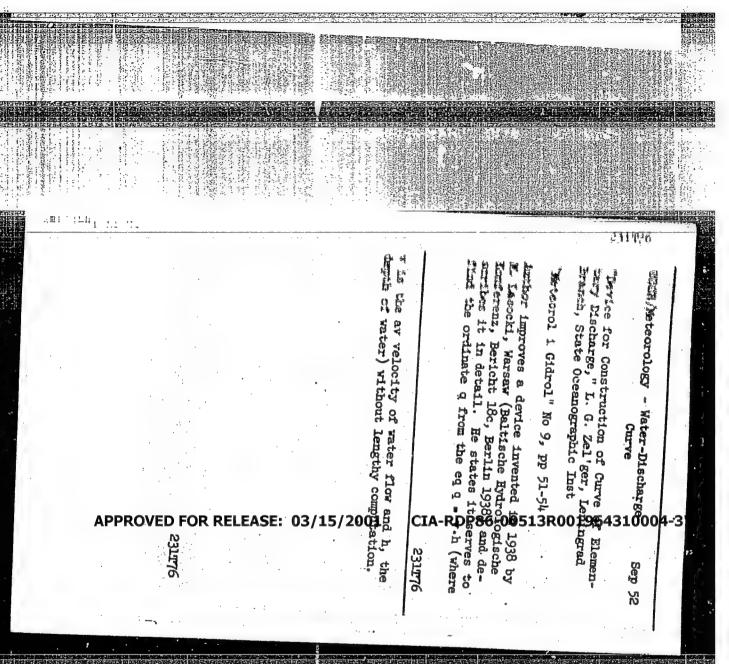
ZELEZNYAKOV, V.V.

Instability of a magnetoactive plasma relative to high-frequency electromagnetic perturbations. Part 4. Izv.vys.ucheb.zav.; radiofiz. 4 no.5:849-860 '61. (MIRA 14:10)

LELEINYAKOV V.V.

"Theory of Sporadic Radio Emission of the Sun," by B. N. Gershman and V. V. Zheleznyakov, pp 273-311, (Abstract No 494)

Experimental data indicate the existence of several types of radio emission: emission of the "tranquil" sun (type I), emission connected with solar spots (type II), short "isolated" surges with no connection to solar activity (type III), and surges connected to chromospheric flares (type IV). Possible mechanisms of emission of the disturbed sun are discussed. The emission of relativistic electrons speeding along magnetic force lines may explain emissions of type II: circular polarition and relatively high intensity with rather low electron density. The problem of the acceleration mechanism in the vicinity of spots is still open. The explanation of other types of sporadic emission is attempted by assuming a plasma mechanism. I. S. Shklovskiy emphasized radio emissions by one mechanism. V. L. Ginzburg pointed out the difference of relativistic electron emission in the case of the sun and the Galaxy. In the case of the Galaxy, the angle between the electron angle is small. (U)



"APPROVED FOR RELEASE: 03/15/2001

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ACCESSION NR: AT4037683

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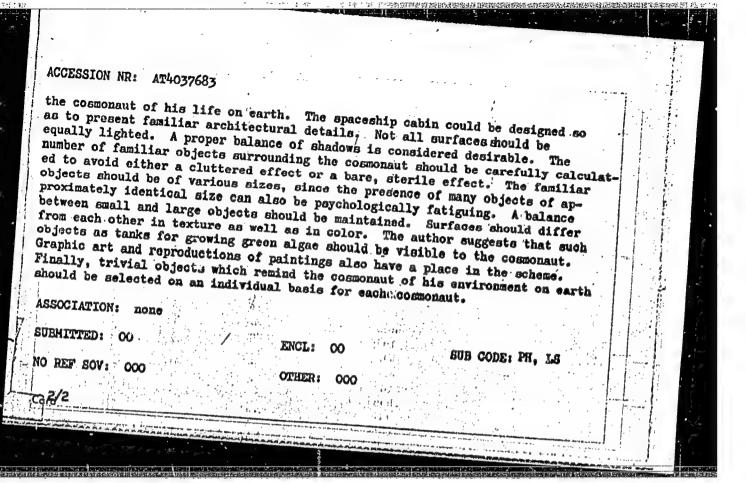
AUTHOR: Zelfel'd, V. V.

TITLE: Objects and spatial environment in cabins of spaceships

SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy* kosmicheskoy biologii, v. 3, 1964, 125-129

TOPIC TAGS: manned space flight, cabin environment, psychology

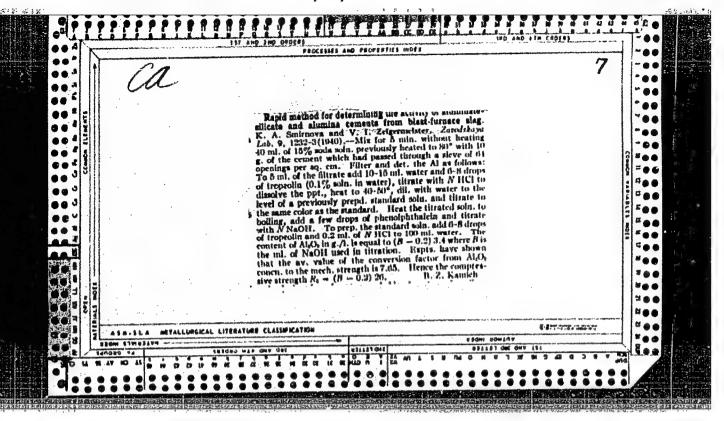
ABSTRACT: It is suggested that a spaceship cabin should contain objects and surroundings which make a cosmonaut feel at home. Familiar objects and familiar surroundings should help to counteract the monotonous flight rhythm and the sharp decrease in stimuli and impressions in prolonged space flight. Since it is impossible to reproduce completely an earth-type environment in the cabin of a spaceship, the author suggests a number of means for achieving the effect of a familiar environment. Specifically, he suggests that the spaceahip environment simulate seasons of the year and the time of the day. Such effects could be achieved through illumination and by careful selection of colors. Purely technical aspects of the spaceships such as required equipment could be balanced by the presence of psychologically reassuring everyday objects which will remind



GAVRILOV, O., chempion i rekordsmen, master sporta; ZEL'GER, V., master sporta

Necessary additions. Za rul. 21 no.4:18-19 Ap '63. (MIRA 16:5)

(Motorboat engines)



Water diversion works with nuction wells. Energ. stroi. za rub.
no.2150 '59.

(France—Hydraulic engineering)

(Norocco—Hydraulic engineering)

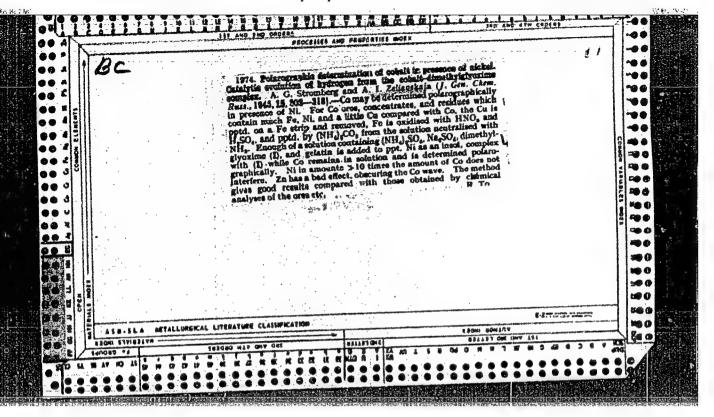


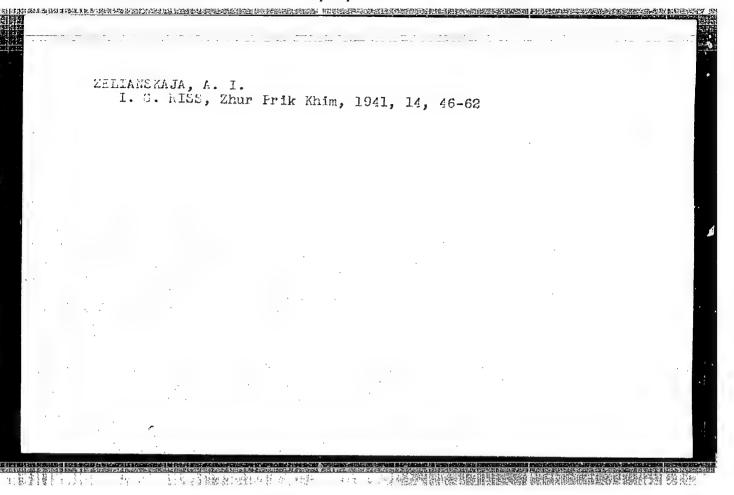
ZELIAKH, E.V.

ATABEKOV, G.I., professor, doktor tekhnicheskikh nauk.

Review of E.V.Zeliakh's book *Principles of the general theory of linear electric circuits.* Reviewed by G.I.Atabekov. Avtom. i telem. 15 no.3:275-276 My-Je '54.

(Electric circuits) (Zeliakh, E.V.)





ZELEVINSKAYA, S.A.; BULATOVA, T.I.; LARINA, I.A.

Study of the immunological effectiveness of complex immunization against gas gangrene, tetanus and botulism in experiments on monkeys. Biul.eksp.biol.i med. 53 no.6:59-62 Je '62.

(MIRA 15:10)

1. Iz otdela ranevykh infektsiy (zav. - dyestvitel'nyy chlen AMN SSSR G.V.Vygodchikov) Instituta epidemiologii i mikrobiologii imeni N.F.Gamalei (dir. - prof. O.V.Baroyan) AMN SSSR, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR G.V.Vygodchikovym. (VACCINATION) (GAS GANGRENE) (TETANUS) (BOTULISM)

ZELEVINSKIY, G.S., inzh.; NEKRASOV, A.M., inzh.

Problems concerning the future development of thermal electric power plants and electric networks. Elek.sta. 32 no.4:2-9 Ap '61.

(Electric power plants) (Electric power distribution)

3/056/62/042/006/026/047 B104/B108

AUTHORS:

Belyayev, S. T., Zelevinskiy, V. G.

TITLE:

"Anharmonic effects" of quadrupole oscillations of spherical

nuclei

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 42,

no. 6, 1962, 1590 - 1603

TEXT: Deviations from the harmonic fundamental oscillations are studied in the scope of the microscopic theory of collective excitations of spherical even-even nuclei. The number of independent phenomenological constants for describing the anharmonic corrections of quadrupole oscillations of spherical nuclei can be reduced considerably. In adiabatic approximation, the perturbation H(1), i. e. the term of the Hamiltonian containing three phonon operators, is determined by only one constant.

E⁽²⁾ contains only three constants which can be approximated asymptotically by one constant. All constants can be calculated for real nuclei. The probability of electromagnetic E2 transitions is much more sensitive to

Card 1/2

"Anharmonic effects" ...

"Anharmonic effects" ...

the form of the anharmonic corrections than the energy of the nuclear levels.

UBELITTED: December 31, 1961

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ACCESSION NR: AP5020253

UR/0367/65/002/001/0051/0058

AUTHOR: Belyayev, S. T.; Zelevinskiy, V. G.

TITLE: Green's functions and transition probabilities in odd nuclei

4/1B

SOURCE: Yadernaya fizika, v. 2, no. 1, 1965, 51-58

TOPIC TAGS: Green function, transition probability, fermion, phonon, ground state

ABSTRACT: Expressions are obtained for various Green's functions of odd nuclei. These expressions make it possible to calculate the nuclear characteristics for states having either a single-particle or a collective nature. The method consists in going over from averaging over the ground state of the odd nucleus to averaging over the neighboring nucleus. This makes it possible to eliminate the uncertainty connected with degeneracy in the ground state. Explicit equations are derived for the single-fermion, phonon, and two-particle Green's functions. Transition probabilities and mean values of the physical quantities are also derived for arbitrary low-lying states in odd nuclei. Orig. art. has: 34 formulas.

ASSOCIATION: None

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HELYAYEV, S.T.; ZELZVIICKIY, V.G.

The method of Green's functions in a simple nuclear model. IAd. fiz. 2 no.4:615-634 0 '65. (HIFA 18:11)

ZELEVSKIY, R.O.; MIKHEYKIN, V.Ya.

Some problems in the analysis of morbidity requiring ambulatory urological aid. Urologiia 27 no.4241-44 J1-Ag 162. (MIRA 15:11)

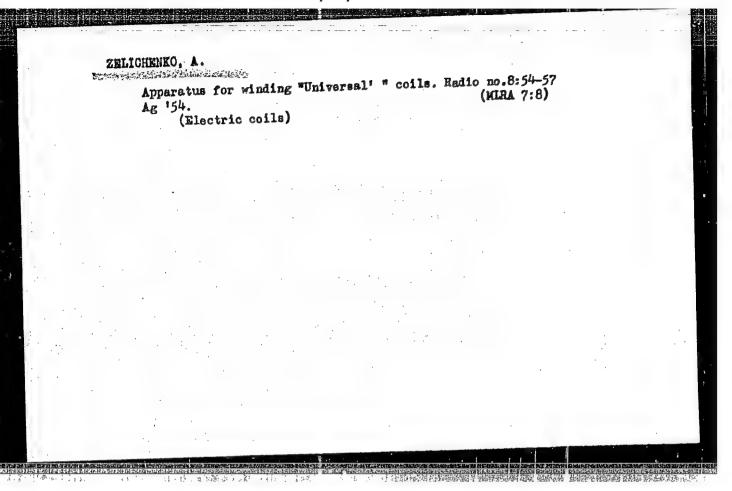
1. Iz polikliniki No.31 I Leningradskogo meditsinskogo instituta imeni I.P. Pavlova (nauchnyy rukovoditel - prof. A.M. Gasparyan). (UROLOGY)

ZELICHA, J

Resinification work in April. p.40

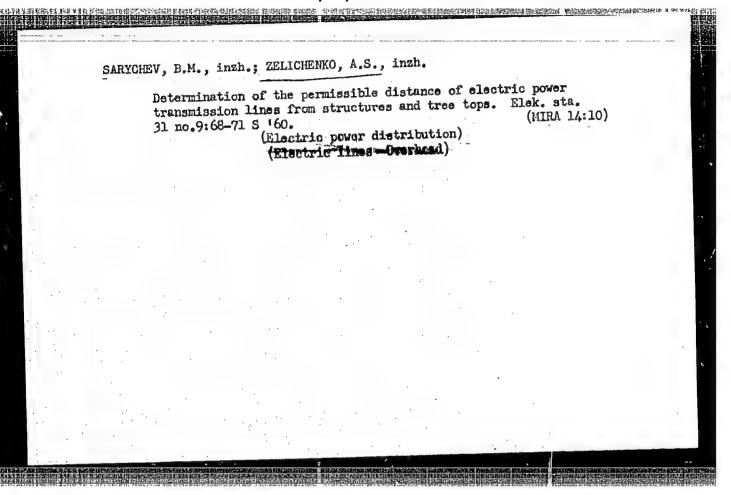
LAS POISKI. (Ministerstwo Lesnict's oraz Stowarzyszenie Naukowo-TEchiczne Inzynierow i Technikow Lesnictwa i Drzewnictwa) Warszawa, Poland Vol.29, no.3, Mar. 1955

Monthly list of East European Accessions (EEAI) LC, Vol.9, no.2, Feb. 1960 Uncl.



Determining calculated minimum permissible diameters of parts of interrediate wooden supports for 35 and 110 kv electric transmission lines during operation. Eloksuta. 31 no.2:67-71 F 160. (MIRA 13:5)

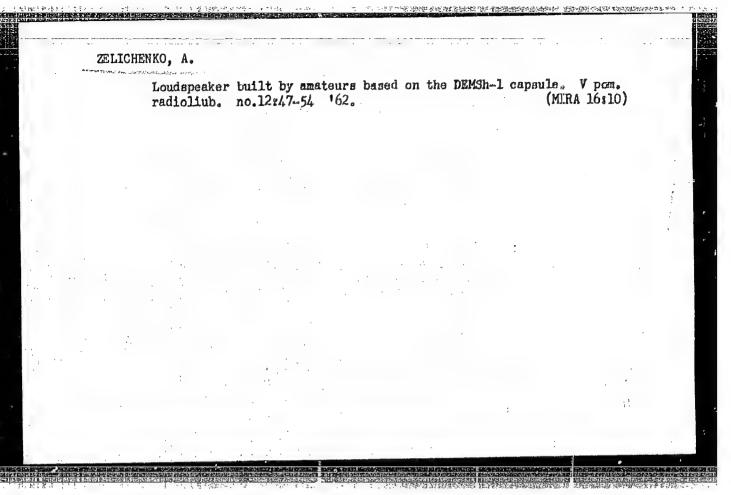
(Electric lines--Poles)

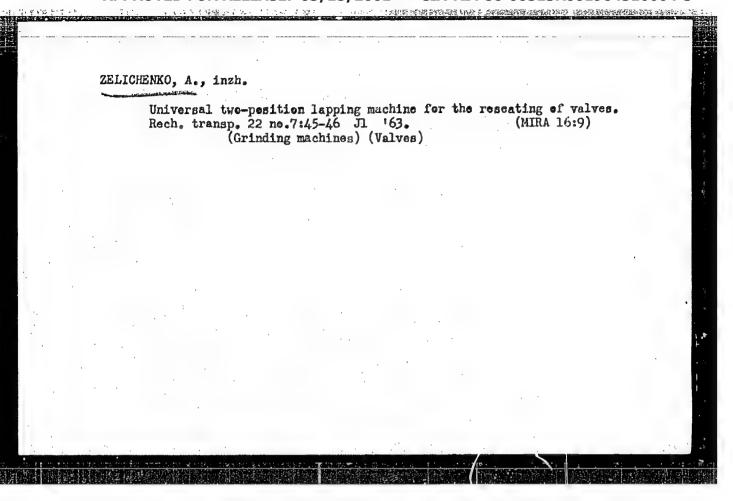


EXPAND the use of sheet-bending machines. Rech. transp. 20 (MIRA 14:2) (Sheet-metal work)

ZELICHENKO, A.S., inzh.; SARYCHEV, B.M.

Determination of the design parameters and the minimum permissible diameters of the components of wooden anchor tower corner-pole supports on 35 and 110 kv. electric power transmission lines. Elek.sta. 32 no.6:59-64 Je '61. (MIRA 14:8) (Electric lines--Poles)





KESEL'MAN, L.M., inzh.; ZELICHENKO, A.S., inzh.

Weight and wind spans between towers in mountainous areas. Elek. sta. 36 no.11:68-71 N *65. (MIRA 18:10)

CELICHENKO, A. YA.

Sheet Metal Work

fa 根据1 Flitz

Mechanising the bending of steel sheets. Rech. transp. 12 No. 1, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952. UNCLASSIFIED.

ZELICHERO, A. YA. (Engineer)

Electric Welding

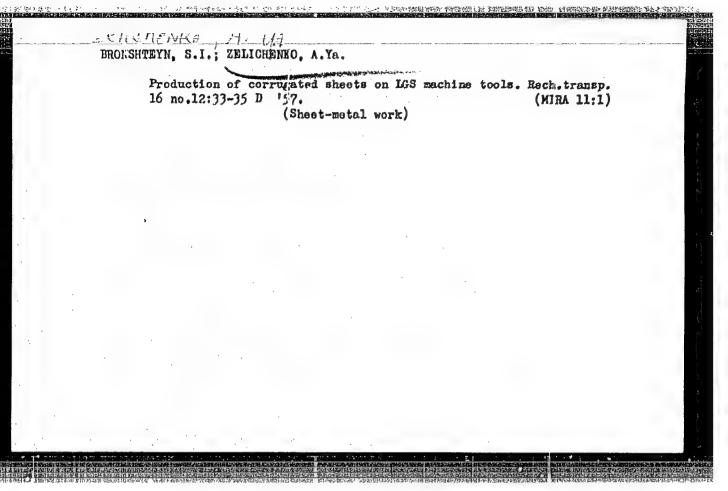
Spot welding with hand-operated semi-automatic apparatus. Rech. transp. 12, No. 3, 1952

Monthly List of Russian Accessions, Library of Congress, August, 1952. Unclassified.

BRONSHTEYN, Sergey Isaakovich; ZELICHENEO Abram Yekovlevich; GOLOVAROV, N.V., redaktor; VOLCHOK, K.W., tekhnicheskiy redaktor.

[Bending sheet steel on machines of the LGS type] Gibka listovot stall na stankakh tipa LGS. Leningrad, Isd-vo "Rechnot transport", Leningradekoe otd-nie, 1956. 51 p. (MIRA 9:6)

(Shoet-wetal work)



BRONSHTEYN, Sergey Isakovich; ZELICHENKO, Abram Yakovlevich; MELEYEV,

A.S., red.; LAVREHOVA, M.B., tekhn.red.

[Mechanization of work on piping in ship repairing] Mekhanizatsiia truboprovodnykh rabot v sudoremonte. Moskva, Izd-vo

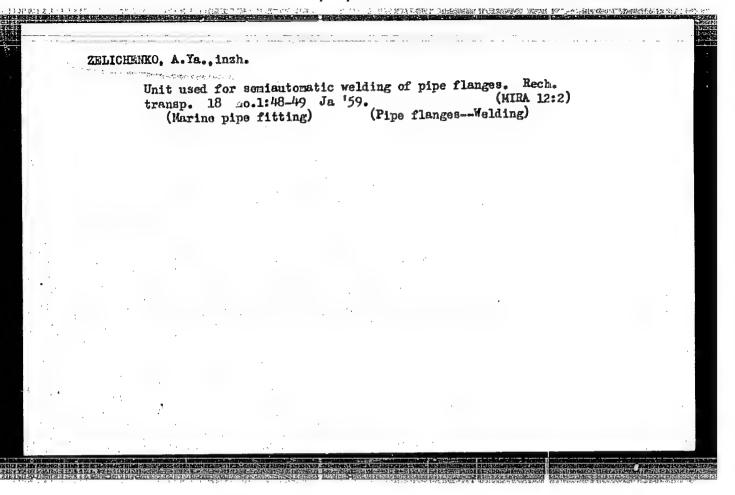
"Morskoi transport," 1958, 156 p. (MIRA 12:6)

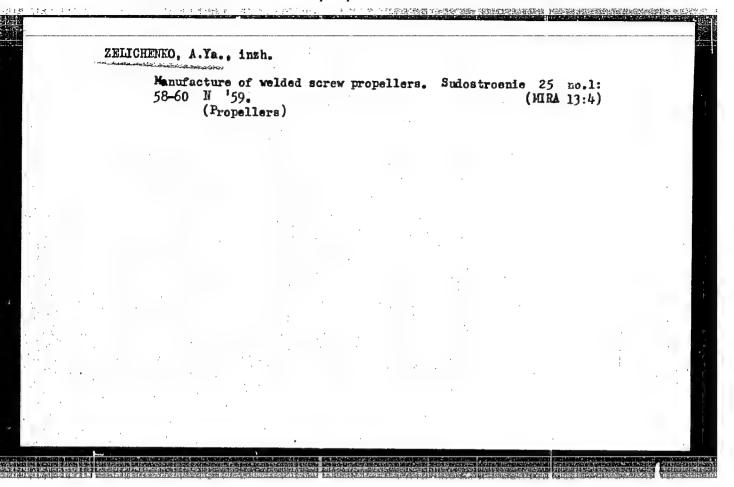
(Marine pipe fitting)

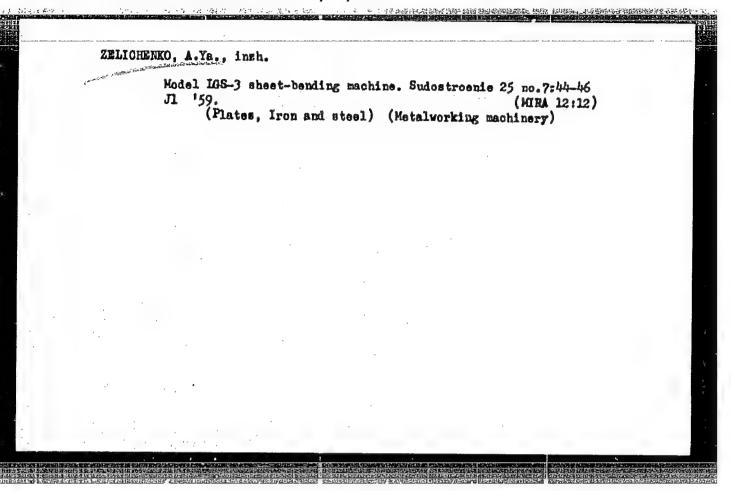
ERONSHTEYN, S.I., inzh.; ZELICHENEO, A.Ya., inzh.

Pipe-bending machine using high-frequency currents for heating.
Rech. transp. 17 no.12:20-23 D '58. (MIRE 12:1)

(Bending machines) (Pipe bending)

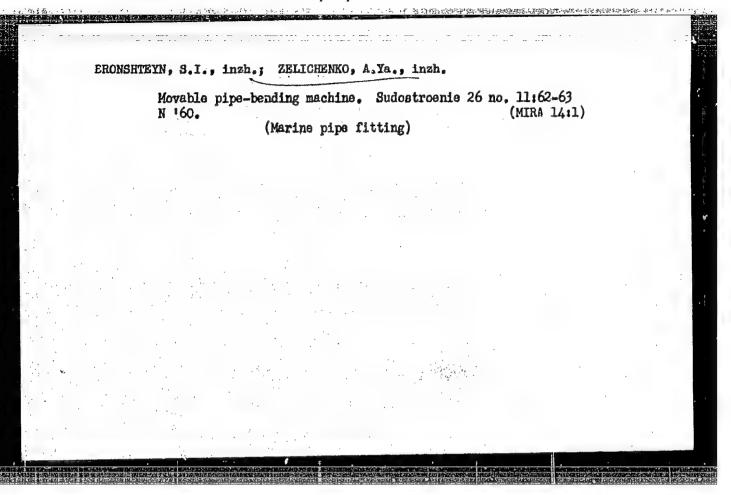






BRONSHTEYN, S.I., inzh., ZELICHENKO, A.Ya. inzh,

Machine tool for grinding ship fittings. Sudostroenie no.7:61-64 J1 160. (MIRA 13:7) (Shipfitting--Equipment and supplies)

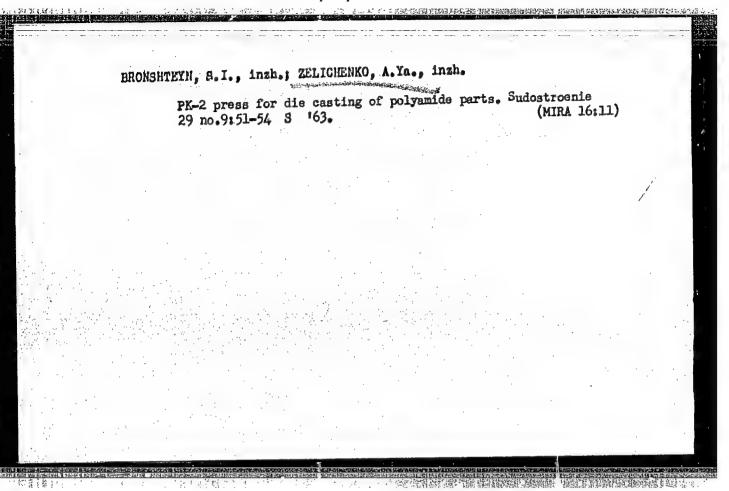


ANDRIYEVSKIY, Valeriy Nikolayevich; GOLOVANOV, Aleksandr Trofimovich;

ZELICHENKO, Abram Simkhovi h; KARSAULIDZE, A.N., red.;

LARIONOV, G.Ye., tekhn. red.;

[Operation of overhead power transmission lines] Ekspluatatsiia vozdushnykh linii elektroperedachi. Moskva, Gosenergoizdat, 1963. 527 p. (MIRA 17:2)



BRONSHTEYN, S.I., inzh.; ZELICHENKO, A.Ya., inzh.

New type of electromagnetic stands with flux padding for the welding of plating. Sudostroenie 29 no.6:54-56 Je '63.

(MIRA 16:7)

(Electric welding—Equipment and supplies)

BIRYUKOVICH, Konstantin L'vovich; BIRYUKOVICH, Yuriy L'vovich; BIRYUKOVICH, Dmitriy L'vovich; SINTSOV, G.M., inzh., retsenzent; ZELICHENKO, A.Ya., nauchm. red.; KAZAROV, Yu.S., red.

[Small glass reinforced concrete and mesh reinforced concrete vessels] Melkie suda iz steklotsomenta i armotesementa. Leningrad, Sudostroenie, 1965. 163 p.
(MIRA 18:7)

ACC NRI AR6022401 (N) SOURCE CODE: UR/0398/66/000/003/V022/V022

AUTHOR: Zelichenko, A. Ya.

TITLE: All-purpose aggregate for replacing the hull plating of merchant ships

SOURCE: Ref. zh. Vodnyy transport, Abs. 3V166

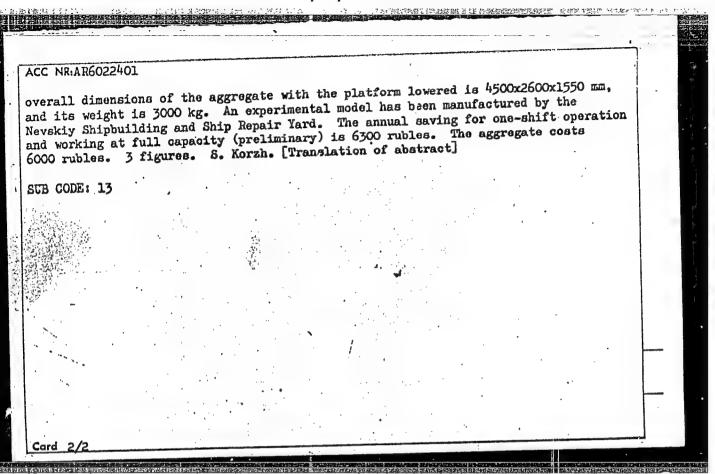
REF SOURCE: Proizv. tekhn. sb. Tekhn. upr. M-va rechn. flota RSFSR, no. 1 (45), 1965, 53-56

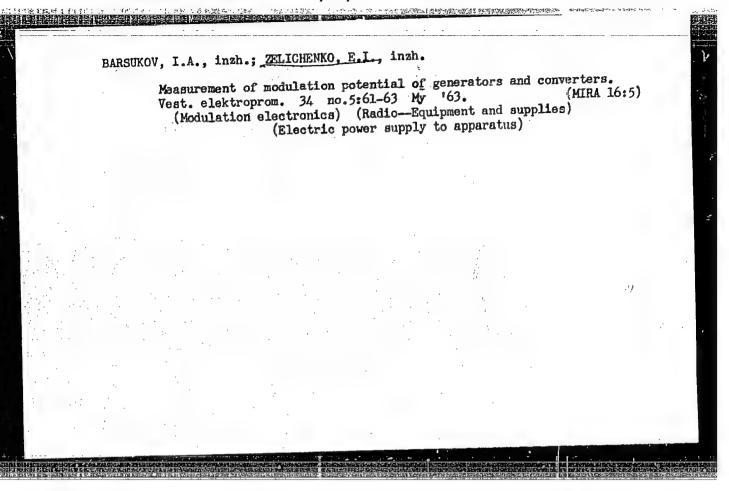
TOPIC TAGS: shipbuilding engineering, winch, ship component, structural steel, test model, cargo ship

ABSTRACT: The Central Planning-Design Bureau of the Ministry for the River Fleet [TsTKB MRF] has developed a project for an all-purpose, mechanized, self-propelled, aggregate which makes it possible to replace hull plating in any section of a merchant ship hull, regardless of the hull lines involved. The aggregate is described. The largest size plate which can be replaced using the aggregate is 8x1600x6000 mm, the lowest position the platform can take with respect to the slip floor is 1550 mm, and the highest is 5000 mm, the lift capacity of the hand winches used as the lift drives for plate is 2 x 500 kg, for the drive for turning the platform it is 1000 kg, the electric motors for driving the frame lift and the carriage are rated at 2.8 kw, the force applied by the air cylinder drive for the plate clamp is 3 x 250 kg, the

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ZELICHENKO G.S.

117-58-5-24/24

AUTHOR:

None Given

TITLE:

Conference on Construction and Utilization of Casting Equipment (Konferentsiya po konstruirovaniyu i ekspluatatsii

litoynogo oborudovaniya)

PERIODICAL:

Mashinostroitel', 1958, Nr 5, p 48 (USSR)

ABSTRACT:

In December 1957, a scientific-research conference took place in Gor'kiy dealing with the construction and utilization of cacting equipment. It was organized by the department of casting of the NTO MASHPROM. At the conference were 900 representatives from machine building plants, casting equipment plants, scientific research institutes, universities, etc. A total of 28 reports were given. I.F. Yegorenko, Candidate of Technical Sciences (NIILITMASH) reported on the actual state and development of the casting technique. P.N. Aksenov, Doctor of Technical Sciences (MAMI) reported on automated lines of sand-blowing moulding. L.M. Mariyenbakh, Doctor of Technical Sciences (MVMI) reported on the subject "Mechanized Drying Kilns". G.S. Zelichenko, Engineer (Leningrad Branch of Soyuzprommekhanizatsii) reported on "Automatic Lines of Molding in Casting Shops". A.D. Ginzburg (LF VPTI tyazhmash) reported on a self-constructed automatic machine for the pro-

Card 1/2

117-58-5-24/24

Conference on Construction and Utilization of Casting Equipment

duction of shell moulds. V.N. Bobrov (NIILITMASH) talked about automatic machines for moulding. A.V. Odinokov, Engineer, reported on modern sand blasting devices. G.S. Taburinskiy, Engineer (NIITLITMASH) reported on "Automatic Machines for the Production of Shell Molds and Cores". Z.D. Levin (Plant KATEK) spoke on "Projects and Utilization of Equipment for Mechanized Casting". I.V. Yefimov, Engineer, spoke on "Mechanization and Automation of the Technological Process of Casting With Meltable Models". G.R. Nikol'skiy, Engineer (NIILITMASH) spoke on hydraulic and sand-hydraulic cleaning of castings. B.G. Shpital'nyy (NIILITMASH) talked about the automatic moulding machine Nr 96264.

AVAILABLE: Card 2/2 Library of Congress

1. Casting equipment-Development 2. Casting equipment-Application

<u> </u>	CHENKO, G.S.	§ # # # #
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CIA-RDP86-00513R001964310004-3

ZELICHENKO SOV/5648 PHASE I BOOK EXPLOITATION Sokolov, Aleksey Nikolayevich, ed. --Mekhanizatsiya i peredovaya tekhnologiya liteynogo proizvodstva (Mechanization and Advanced Processing in Foundries) [Leningrad] Lenizdat, 1961. 236 p. 2,000 copies printed. Ed.: Ye. V. Yemel'yanova; Tech. Ed.: I.M. Tikhonova. PURPOSE: This collection of articles is intended for technical personnel, foremen, and skilled workmen of foundries. It may also be of use to staff members engaged in the mechanization of production operations. COVERAGE: The collection contains articles discussing the experience of a number of Leningrad plants and engineering and design organizations in mechanizing foundry processes and in applying advanced techniques to the manufacture of castings. No personalities are mentioned. Some Card 1/5

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S/118/62/000/002/001/005 D221/D301

AUTHUR:

Zelichenko, G. S., Engineer

TITLE:

Automated lines for moulding and knocking out in the

boundry shops

PERIODICAL:

Mekhanizatsiya i avtomatizatsiya proizvodstva, no. 2.

1962, 1 - 7

TEXT: The Leningrad branch of "Soyuzprommekhanizatsiya" has developed automated lines for moulding and knocking out for the factories im. Lepse. The four-station automatic 94265 with shakers and pre-pressing of CKE-6 (SKB-6) designs made by "Krasnaya Presnya", as well as single station semiautomatic 91271, with shaker and pre-pressing of NIILITMASh were used. The output of two 94265 units is 180 moulds per hour, and both halves are made in succession. This is an important advantage in the case of setting for other castings or break-down. The automatic line consists of a conveyor, knock-out installation, vibratory conveyor for empty mould boxes, and two moulders. The latter is made up of a transfer arrangement of boxes Card 1/3

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Automated lines for moulding ...

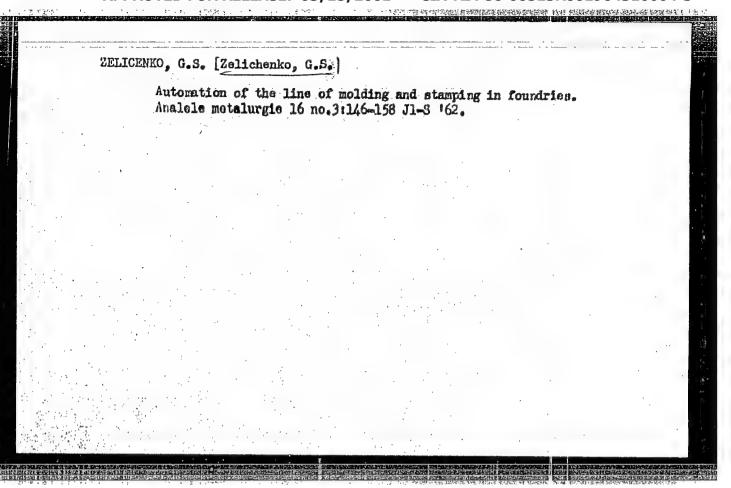
from the vibratory conveyor, an automatic device for loading ready half-moulds for their assembly, vibratory conveyor, assembly of moulds and their transfer on the foundry conveyor, and finally a device for placing and removal of weights. The foundry conveyer was designed by the trust of "Soyuzprommekhanizatsiya", and is of a horizontal construction with trolleys and a flat plate. The line is illustrated and described in detail. The cycle of forming is divided into four operations, and the automatic machine produces both halves of the mould during 20 seconds. After turn-over and turning by 900, the moulds are pushed by a hydro-pneumatic device into a slate conveyor, where they are subject of visual inspection designs the last stage (assembly) will be separated. The unit for the assembly operation takes up the upper mould, turns it over and places it over the lower part with centering pins to ensure a proper positioning. After a certain pause, the trolley is coupled to a bar and the mould is placed. The weight manipulator is formed by two trolleys actuated by pneumatic cylinders. The weights travel on a gravity roller-conveyor which is mounted between the lines of foundry conveyor. The width manipulator picks up the charge from the roller Card 2/3

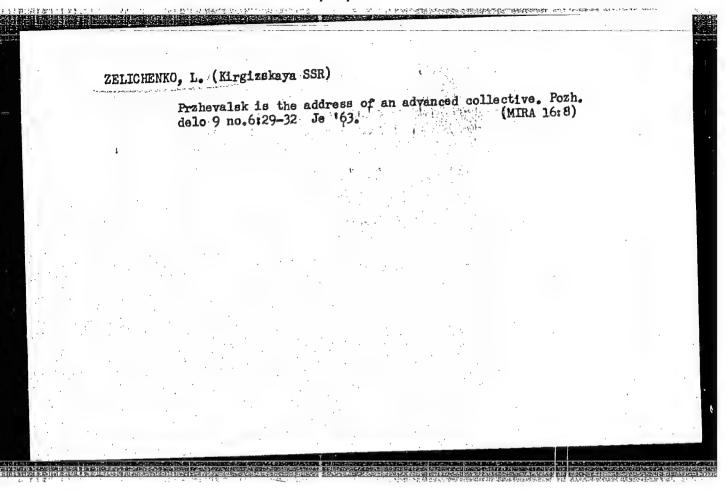
 Automated lines for moulding ...

S/118/62/000/002/001/005 D221/D301

-conveyor and back. The control of the unit is designed by ENIMS with the use of limit switches. The work efficiency is improved 2.4 times with the introduction of this automated line. The semi-automator line with 91271 machines has an output of 360 moulds/hour with weight manipulator, where weights are automatically placed over the knock out installation, which operates with a 10 sec. cycle. The empty boxes are pushed onto a lifting table, and from there onsures the separation of halves of the moulding boxes. The actual operation of moulding takes only 30 seconds, leaving for the operatoral controlled by pressing a push button. There are 9 figures.

Uard 3/3





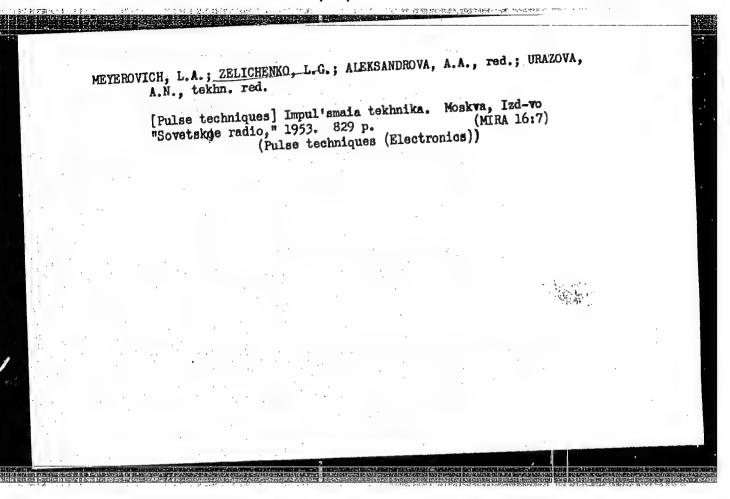
ZELICHENKO, L.B.

VIROVETS, A.M., professor; BARVENKO, Ye.I., inzhener; EENDOVSKIY, M.K., inzhener; GORELKIN, L.F., inzhener; DRIATSKAYA, E.M., inzhener; ZELI-CHENKO, L.B., inzhener; IVANOV, V.F., inzhner; KAMENSKIKH, I.G., Inzhener; KOSINOV, M.Ya., inzhener; LARIN, D.A., inzhener; MAUERER, V. G. inzhener; NEMTSEV, S.V., inzhener; SOLOV'YEVA, M.V., inzhener; PISHKIN, V.N.; RYTOV, A.V., redaktor; SHIENSKIY, I.A., tekhnicheskiy redaktor.

[Tables of the rectangular coordinates of map frame angles and of map frame and area dimensions of trapezoids of topographic surveys, using the scale 1:5000; for latitudes 36°-68°. Krasovskii's ellipsoid] Tablitsy priamougol'nykh koordinat uglov ramok, razmerov ramok i plosh-chadei; trapets'i topograficheskikh seemok masshtaba 1:5000. Dlia shirot ot 36°-68°. Ellipsoid Krasovskogo. Moskva, Izd-vo geodezishirot ot 36°-68°. Ellipsoid Krasovskogo. Moskva, Izd-vo geodezisheskoi lit-ry, 1953. 909 p.

(MIRA 8:4)

(Surveying-Tables, etc.) (Coordinates) (Trigonometry-Tables, etc.)



MEYEROVICH, L.A., kand. tekhn.nauk; ZELICHENKO, L.O., kand. tekhn. nauk.

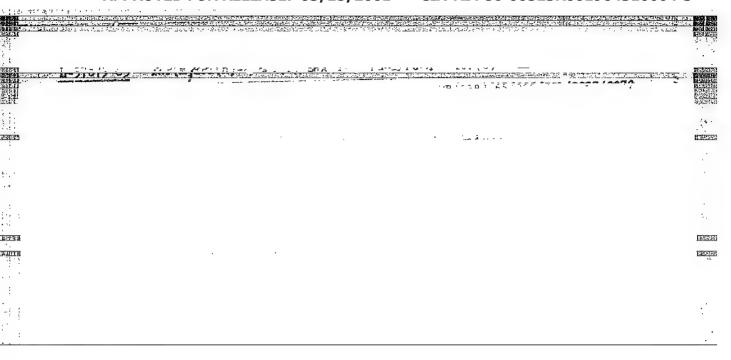
Calculating the turnover rate of multivibrators. Radiotekhnika 8 no.1:42-54 Ja-F *53. (MIRA 11:6)

(Fulse techniques (Electronics))

MEYEROVICH, L.A.; ZELICHERKO, L.G.; ALEKSANDROVA, A.A., redaktor; KORUZEV, N.N., tekhnicheskiy redaktor

[Pulse techniques] Impul'snaia tekhnika, Izd. 2-e. Moskva, Izd-vo
"Sovetskoe radio," 1954. 759 p.

(Pulse techniques (Electronics))



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BROVMAN, M.Ya.; CERTSEV, A.I.; ZELICHENOK, B.Yu.; KRIVONOSOV, Yu.I.; RIMEN, V.Kh.; SOKOL, V.N.; MEL'NIKOV, A.F.

Investigating the electric drive parameters of the 2800 mill in the Orsk-Khalilovo Metallurgical Combine. Stall 22 no.1:45-48 Ja '62. (MIRA 14:12)

1. Yuzhnoural'skiy mashinostroitel'nyy zavod i Orsko-Khalilovskiy metallurgicheskiy kombinat.

(Ural Mountains-Rolling mills-Electric driving)

KOVYNEV, M.V., inzh.; ZELICHENOK, B.Yu., inzh.; GERTSEV, A.I., inzh.; VOZNESENSKIY, V.A., inzh.

Optimum amount of slab reduction in stands with 2800 vertical roll mills. Stal' 23 no.6:529-530 Je '63. (MIRA 16:10)

1. Orsko-Khalilovskiy metallurgicheskiy kombinat.

VARNAVSKIY, I.N.; ZELICHENOK, B.Yu.; KARGIN, V.A.; ZHIGULIN, V.I., inzh.; BEDA, N.I., inzh.; RYZHKOV, P.Ya., inzh.; GAVRILOV, A.M., inzh.

New developments in research. Stal' 23 no.10:950 0 '63. (MIRA 16:11)

s/133/62/000/001/005/010 A054/A127

Brovman, M. Ya., Gertsev, A. I., Zelichenok, B. Yu., Krivonosov, Yu. I., Rimen, V. Kh., Sokol, V. N., Mel'nikov, A. F.

Investigating the power parameters of the 2800 mill of the Orsko-Kha-AUTHORS: lilovskiy metallurgicheskiy kombinat (Orsk-Khalilovo Metallurgical TITLE:

Combine)

PERIODICAL: Stal', no. 1, 1962, 45 - 48

To increase the output of the 2800 mm mill, tests were carried out at the Orsko-Khalilovskiy metallurgicheskiy kombinat (Orsk-Khalilovo: Metallurgical Combine), in cooperation with the Yuzhnoural skiy mashinostroitel nyy zavod Complies, in cooperation with the luminoural skiy mashinostrolter may zavod (Southern Ural Mechanical Engineering Plant). These tests were aimed at investigating the motor capacity and the metal pressure on the rolls. The mill consisted of two stands: a 2-high roughing stand (with rolls of 60XH (60KhN) and 60 XF (60KhG) steel, barrel diameter: 1,150 mm, roll-neck diameter: 690 mm), and a reversing 4-high finishing stand (work-roll diameter: 800 mm, diameter of the support rolls: 1,400 mm). Carbon and low-alloy steel sheets (CT.3Kn/St.3kp, support rolls: 1,400 mm). Carbon and low-alloy steel sneets (UT.3KH/St.3KP, 14TH /14GN, 15XCHA /15KhSND, CT.0/St.0, CT.5/St.5), 8 - 50 mm thick, 1,500 -

card 1/3

S/133/62/000/001/005/010 A054/A127

Investigating the power parameters of ..

2,500 mm wide and 18 m in length are rolled on the stands. The operation of the 2-high stand consists of 4 longitudinal passes, tilting through 90° and 6 - 8 passes for lateral deformation, with 2 - 4 subsequent longitudinal passes. In order to ensure accurate dimensions, a special gauge is used in which several rods of the same height are mounted instead of one and in which the wire pickups are connected in series, thus not depending on the load distribution between the rods. The power parameters were determined by rolling 41 slabs (2.7 - 4.7 tons) on the 2-high and 36 strips on the 4-high stand. The rolling conditions on the 2-high stand are given in a table. The pressure values obtained for the 2-high stand are 1.040 tons during the first longitudinal rolling, 1,940 tons during the lateral rolling and 2.360 tons during the second longitudinal rolling. The metal pressure on the 4-high stand is 2,090 tons, usually the stand works with 1,300 -1,700 tons pressure and a reduction of 20 - 25%. The pressures actually applied during rolling remain below the permissible level. The results were also checked by comparing them with experimental values for the motor torques, calculated for various metal pressures. The comparison yielded practically identical values. The pressure gaugings were carried out at roll-rotation rates of 30 - 45/min on the 2-high stand and at 60 - 80 rpm on the 4-high stand. By increasing the roll

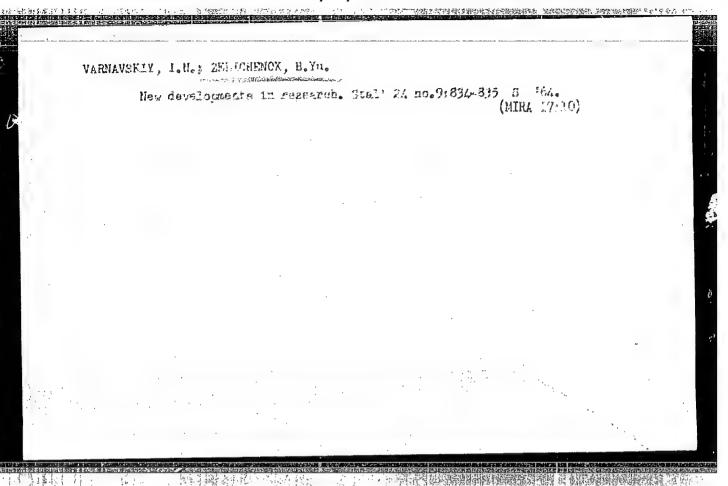
Card 2/3

Investigating the power parameters of ...

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speed the metal pressure could be raised by 8 - 10% on the 2-high stand and by 5 - 7% on the 4-high stand. The final conclusions drawn from these tests were that the 2-high and the 4-high stands of the 2,800 mm strip mill are not fully loaded when rolling St.3 and St.3kp sheets, and, taking into account the motor capacity, the reductions could be increased by 30 - 40%, thus raising the stand output by 10 - 15%. However, actually it is only possible to reduce the number of passes from 8 to 6 when rolling laterally. The best way to improve the operation of the mill is by modifying the reductions on both stands in such a way, that thinner strip for the 4-high stand. There are 3 figures and 9 references: 1 non-reads as follows: A. Nadai, M. I. Manjone. Journal of Applied Mechanics, 1941, no. 6.

Card 3/3



KOVYNEV, M.V., inzh.; ZELICHENOK, B.Yu., inzh.; GERTSEV, A.I., inzh.; FIDEL', E.L., inzh.; KATRICHENKO, K.P., inzh.

Effect of certain technological factors of rolling on a 2,860 two-high mill on the shape of the piece. Stal' 24 no.11:1009-1013 N '64.

36136-66 EWT(d)/EWT(m)/EWP(y)/T/EWP(t)/ETI/EWP(k)/EWP(h)/EWP(1)ACC NR: AT6016762 JD/HM/HW (N) JT SOURCE CODE: UR/2776/65/000/042/0059/0063 AUTHOR: Golovanenko, S. A.; Ustimenko, V. A.; Kovynev, M. V.; Zelichenok, B. Yu.; Mul'ko, G. N. ORG: none TITLE: Rolling of steel-monel bimetal plate in a "2800" mill 14 SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii. Sbornik trudov, no. 42, 1965. Proizvodstvo bimetallow (Production of bimetals), 59-63 TOPIC TAGS: Akilled carbon steel, monel alloy, plate mill, bimetal, metal cladding, chemical plant equipment / VSt. 3sp. carbon steel, NMZhMts-28-2.5-1.5 monel alloy, "2800" plate mill ABSTRACT: To verify the possibility of the mass production of bimetal plate (sheet of steel clad with sheet of monel) as well as to construct from this plate experimental models of petroleum-refinery apparatus, a pilot-industrial batch (4 tons) of such plate was rolled in a "2800" plate mill of the Orak-Khalilovka Hetallurgical Combine, for the first time in the USSR. The base layer used was VSt. 3sp. killed carbon steel (0.17% C, 0.37% Mn, 0.22% Si, 0.05% Cr, 0.27% Ni, 0.08% Cu, 0.026% S, 0.012% P), and the cladding layer was NMZhMts-28-2.5-1.5 monel alloy with a chemical composition meeting the All-Union State Standard GOST 492-52. The sheets were welded Card 1/2

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together into laminated strips measuring 191x1000x1810 mm and, prior to their rolling, heated in a continuous furnace for 3 hr. After this, they were rolled under conditions similar to those of the rolling of ordinary steels, in breakdown and finishing stands with rolls of 1100-mm diameter, with final rolling to a thickness of 20 mm in a four-high finishing stand with rolls of 800/1300 mm dismeter. During the rolling the current intensity in the armatures of the motors of the two-high breakdown stand was oscillographically recorded and the findings were used to calculate the torque and the pressure exerted by the metal on the rolls during the individual operations. These calculations showed that the maximum rolling stress during the rolling of steel-monel bimetal is 1930 tons, which is substantially below the maximum permissible stress for the rolls (2300 tons). Tests established that the properties of such place definitely meet the requirements posed to this material by the petrochemical machine building industry and the cost of such plate is, even under conditions of experiment, 30-40% lower than that of solid monel plate and, moreover this reduces the consumption of monel to one-half or one-third as compared with solid monel plate. Thus, it is feasible and expedient to organize the rolling of steel-monel bimetal plate in ferrous metallurgy plants. Orig. art. has: 1 figure, 2 tables, 3 formulas.

SUB CODE: 13, 11 / SUBM DATE: none

Joining of Dissimilar Metals

Card 2/2 Ml

BROVMAN, M.Ya.; GERTSEV, A.I.; ZELICHENOK, B.Yu.; KOVYNEV, M.V.; RIMEN, V.Kh.; FIDEL', E.L.

Power parameters of rolling in rolls with a special shape of the surface. Stal' 25 no.3:251-253 Mr '65. (MTRA 18:4)

ZELICHENOK, B.Yu., inzh.; BABITSKIY, M.S., inzh.; VARNAVSKIY, I.N., inzh.; KOVYNEV, M.V., inzh.; MEDVEDEV, V.V., inzh.; ZASLAVSKIY, A.Ya., inzh.

Influence of cross rolling on the quality of 16GN and 17GS steel sheets. Stal' 25 no.8:825-828 S '65. (MIRA 18:9)

1. Orsko-Khalilovskiy metallurgicheskiy kombinat i Chelyabinskiy nauchno-issledovatel'skiy institut metallurgii.